## IN THE CLAIMS

- (Currently Amended) A method of inducing apoptosis-of-a cell, comprising contacting a cell
  with an effective amount of an inhibitor of a glutamine transport system component agent,
  wherein (a) the agent inhibits the uptake of glutamine-by the cell, and (b) the cell undergoes
  apoptosis.
- 2. (Original) The method of claim 1, wherein the cell is a carcinoma cell.
- 3. (Currently amended) The method of claim 2, wherein the <u>carcinoma</u> cell is a hepatocarcinoma cell.
- 4. (Currently amended) The method of claim 2 wherein the carcinoma cell is in comprised by a patient.
- (Currently amended) The method of claim 3, wherein the <u>hepatocarcinoma</u> cell is selected from the group consisting of <u>a PLC/PRF/5 cell</u>, <u>an SK-Hep cell</u>, <u>a Hep3B cell</u>, <u>a Huh-7 cell</u>, <u>a</u> FOCUS cell and <u>a HepG2</u> cell.
- 6. (Currently amended) The method of claim 1, wherein said agent glutamine transport system modulates a component of is the ASC a glutamine transport system.
- (Currently amended) The method of claim 6, wherein the <u>inhibitor of a glutamine transport</u> system component of a glutamine transport system is an inhibitor of the expression of ATB<sup>0</sup>.
- 8. (Canceled)
- (Currently amended) The method of claim [[8]] <u>7</u> wherein the agent inhibitor of expression of <u>ATB</u><sup>0</sup> is selected from the group consisting of an antibody, a polynucleotide , and an amino acid analog.

10. (Currently amended) The method of claim [[8]] 9 wherein the agent is a polynucleotide that inhibits the expression of ATB<sup>o</sup> is an siRNA.

## 11. (Canceled)

12. (Currently amended) The method of claim 10 wherein the polymucleotide siRNA consists essentially of a sequence set forth in SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5. or SEO ID NO:6.

## 13. (Canceled)

- 14. (Currently amended) The method of claim [[12]] 10 wherein the polynucleotide siRNA consists essentially of a sequence as set forth in SEQ ID NO:3.
- 15. (Currently amended) A method of inducing apoptosis of a cell, comprising contacting introducing into a cell with a vector which comprises a polynucleotide that encodes a polynucleotide which reduces the expression of an ATB<sup>0</sup> gene product, wherein (a) the vector enters the cell, (b) the polynucleotide is produced in the cell.
- 16. (Withdrawn) The method of claim 15 wherein the polynucleotide comprises a sequence of at least 10 contiguous nucleotides from SEQ ID NO:1.
- 17. (Currently amended) The method of claim [[16]] 15 wherein the polynucleotide emprises consists essentially of a sequence as set forth in any one of SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5 and SEQ ID NO:6.

## 18. (Canceled)

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19. (Currently amended) The method of claim 15 wherein the polynucleotide consists essentially of the sequence as set forth in SEQ ID NO:3.

- (Currently amended) The method of any one of claims [[19]] 15 wherein the cell is a hepatocarcinoma cell.
- 21. (Original) The method of claim 20 wherein the hepatocarcinoma cell is comprised by a patient.
- 22. (Currently amended) The method of claim 15 wherein the <u>nucleic acid is an siRNA vector is</u> an adenovirus vector.
- 23. (Canceled)
- 24. (Currently amended) A method of treating an hepatocarcinoma comprising administering a therapeutically effective amount of an <u>inhibitor of a glutamine transport system component agent</u> to an individual <u>in need of treatment</u>, wherein (a) the agent contacts a hepatoma cell in the individual, (b) the agent selectively inhibits the activity of an ATB<sup>a</sup> of the hepatoma cell, (c) glutamine uptake by the hepatoma cell is significantly reduced, and (d) the therapeutically effective amount of the inhibitor induces apoptosis in a the hepatoma cell <u>comprised</u> by the hepatocarcinoma undergoes apoptosis.
- 25. (Canceled)
- 26. (Withdrawn) A method of diagnosing cancer in a patient comprising obtaining a sample from the patient, determining the amount of ATB<sup>0</sup> in the sample, and predicting whether a carcinoma is in the patient based upon a higher than normal level of ATB<sup>0</sup> in the sample.
- 27. (Withdrawn) The method of claim 26 wherein the carcinoma is a hepatoma.

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28. (New) The method of claim 24, wherein the inhibitor of a glutamine transport system is an siRNA.

29. (New) The method of claim 28, wherein the siRNA consists essentially of the sequence set forth in SEQ ID NO: 3.